	Application No. Applicant(s)		
Notice of Allowability	09/677,375	9/677,375 BELL ET AL.	
	Examiner	Art Unit	
	David Lukton	1653	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31	(OR REMAINS) CLOSED in the commetion of the commetion of the commetion is the commetion in the commetion is the commetion in the commetion in the commetion is the commetion in	in this application. If not inclu- nunication will be mailed in due	ded e course, THIS
1. \boxtimes This communication is responsive to $3/24/04$.			
2. \boxtimes The allowed claim(s) is/are <u>6-13,15-19,21-23,27 and 28</u> .			
3. \boxtimes The drawings filed on <u>15 September 2000</u> are accepted b	y the Examiner.		
 4. ☐ Acknowledgment is made of a claim for foreign priority u a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	e been received. e been received in Application	on No	ation from the
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file IENT of this application.	e a reply complying with the re	equirements
5. A SUBSTITUTE OATH OR DECLARATION must be subminformal PATENT APPLICATION (PTO-152) which give	nitted. Note the attached EX. es reason(s) why the oath o	AMINER'S AMENDMENT or larger of the second o	NOTICE OF
 CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner' Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1) 	son's Patent Drawing Review s Amendment / Comment on 84(c)) should be written on t	r in the Office action of	ne back) of
each sheet. Replacement sheet(s) should be labeled as such in t 7. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MAT	ERIAL must be submitted.	Note the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/C Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ⊠ Interview S Paper No./ 98), 7. ⊠ Examiner's	Iformal Patent Application (PT ummary (PTO-413), /Mail Date <u>20040501</u> Amendment/Comment Statement of Reasons for All Christopher	owance
		CHRISTOPHER S. F. SUPERVISORY PATENT E TECHNOLOGY CENTE	XAMINER

U.S. Patent and Trademark Office PTOL-37 (Rev. 1-04) Pursuant to the response filed 3/24/04, no claim has been added, amended or cancelled. Claims 1-26 remain pending. Claims 14-23, previously withdrawn, have now been rejoined and examined. Pursuant also to the following Examiner's Amendment, claims 6-13, 15-19, 21-23, 27-28 are allowable.

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An Examiner's Amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 C.F.R. §1.312. To ensure consideration of such an amendment, it <u>MUST</u> be submitted no later than the payment of the Issue Fee.

- Cancel claims 1-5, 14, 20 and 24-26.
- In claim 15, line 1, delete "claim 14"

 and substitute therefor: -- claim 27 --.
- In claim 17, line 1, delete "claim 14"

 and substitute therefor: -- claim 27 --.
- In claim 18, line 1, delete "claim 14"

 and substitute therefor: -- claim 27 --.
- In claim 21, line 1, delete "claim 20"

 and substitute therefor: -- claim 28 --.

• In claim 22, line 1, delete "20"

and substitute therefor: -- 28 --.

- Add the following claims:
- 27. A device for extracorporeal removal of endotoxin from whole blood comprising a container which contains and retains an endotoxin removal adsorbent,

wherein said endotoxin removal adsorbent comprises a ligand immobilized on a solid phase support medium, the ligand consisting essentially of a mixture of oligopeptides, of which at least one oligopeptide is a branched oligopeptide, said oligopeptides being composed of one or more amino acids having a pK > 7.2, said oligopeptides being polydisperse with respect to molecular weight and to number of branches per molecule,

wherein said solid phase support medium is sufficiently porous to allow passage of blood cells therethrough, and

wherein said container has an inlet and an outlet positioned with respect to the adsorbent such that blood entering the inlet contacts the adsorbent before exiting the container through the outlet.

28. A method for removing endotoxin from blood of an animal or human subject comprising removing a portion of blood from the subject, contacting the blood with an adsorbent

wherein said adsorbent comprises a ligand immobilized on a solid phase support medium, the ligand consisting essentially of a mixture of oligopeptides, of which at least one oligopeptide is a branched oligopeptide, said oligopeptides being composed of one or more amino acids having a pK > 7.2, said oligopeptides being polydisperse with respect to molecular weight and to number of branches per molecule;

whereby endotoxin is removed from the blood by adsorption to said adsorbent, then

returning the blood to the subject.

Authorization for this Examiner's Amendment was given in a telephone conversation with Heeja Yoo-Warren on 5/4/04.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Lukton whose telephone number is 571-272-0952. The examiner can normally be reached Monday-Friday from 9:30 to 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher Low, can be reached at 571-272-0951. The fax number for the organization where this application or proceeding is assigned is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571-272-1600.

D. Likton 5/11/04

CHRISTOPHER S. F. LOW
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1800